



# KTLD-100-UV-PS2300-42-VDIM-LM2

## CONSTANT CURRENT LED DRIVER

### DESCRIPTION

LED Driver | 100W | 120-277V Input | 2000, 2100, 2200 or 2300mA Output



Class P



<b>TOTAL POWER:</b> 100W
<b>INPUT VOLTAGE:</b> 120~277Vac ± 10%
<b>INPUT FREQUENCY:</b> 50/60 Hz
<b>OUTPUT CURRENT:</b> 2000, 2100, 2200 or 2300mA
<b>DIMMING:</b> 0-10V
<b>WARRANTY:</b> 5 Years



### ELECTRICAL SPECIFICATIONS

Input Voltage Range	120~277Vac ± 10%
Frequency	50/60 Hz
Power Factor	> 0.9 under 120~277Vac input with 80~100% load condition (For All Output Currents)
Inrush Current	30A @ 120V
Max. Input Current	1.03A @ 120V, 0.53A @ 240V AND 0.46A @ 277V
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)
Load Regulation	± 2%
Line Regulation	± 2%
Output Tolerance	± 5% at Full Load Condition
Turn-On Delay Time	< 0.5s at Full Load Condition
Overshoot	< 10% at Full Load Condition
No Load Power Consumption	< 2W
Ripple & Noise (pk-pk)	< 10%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Surge Rating	2.5KV for Combination Wave / Ring Wave
Leakage Current	Maximum 0.5mA at 277Vac, 60Hz input
Protection	<ul style="list-style-type: none"> <li>• <b>Over Voltage Protection:</b> Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.</li> <li>• <b>Over Current Protection:</b> Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.</li> <li>• <b>Short Circuit Protection:</b> Hiccup mode. Protection will trigger when short circuited and will auto recover after the fault mode is removed.</li> </ul>

### PRODUCT SPECIFICATIONS

Catalog Number	Max. Output Power	Nominal Watt-age	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
										US	Canada
KTLD-100-UV-PS2300-42-VDIM-LM2	100W	97W	2000mA	20-42V	60V	85%	87%	88%	16 ft	✓	✓
			2100mA								
			2200mA								
			2300mA								

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 60°C/140°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	255,000 hours at 40°C ambient (~70°C Case Temp)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C case temp
Maximum Case Temperature	90°/194°F

### SAFETY AND EMC COMPLIANCE

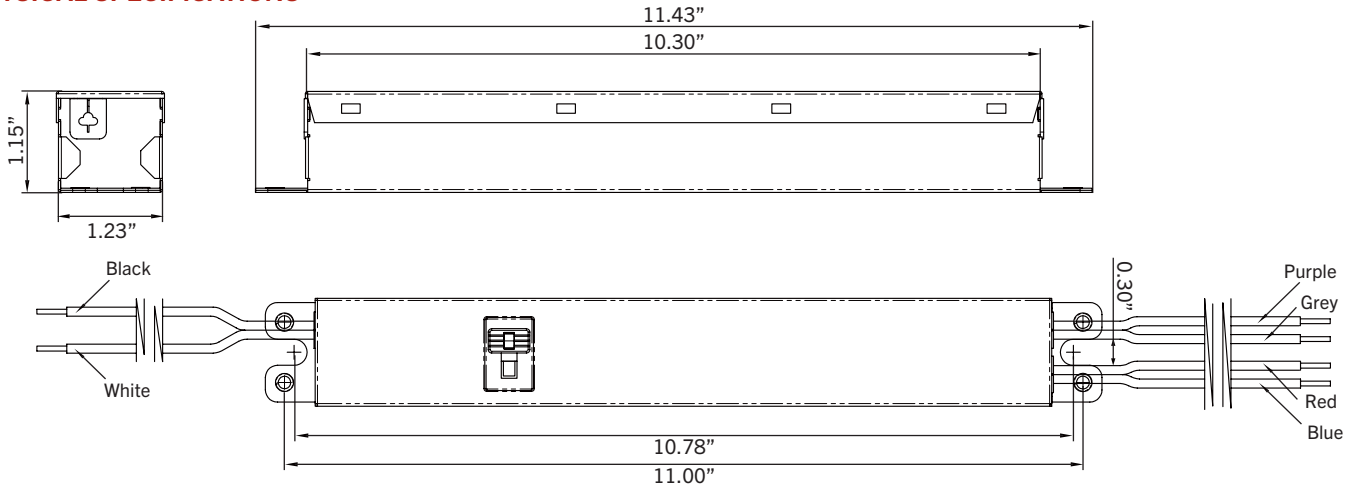
UL/cUL	UL 8750, Class P, Type HL, UL1310 Class 2
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
Sound Rating	Class A Sound Rating (per Energy Star V1.0)
EN61000-3-2	Harmonic Current Emissions Class C



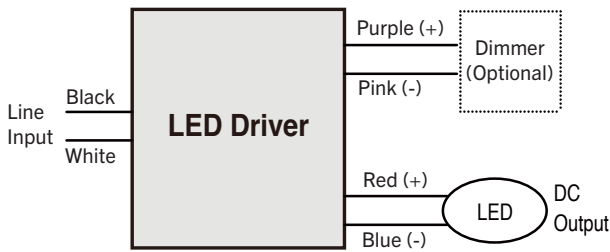
# KTLD-100-UV-PS2300-42-VDIM-LM2

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### PHYSICAL SPECIFICATIONS



### WIRING DIAGRAM

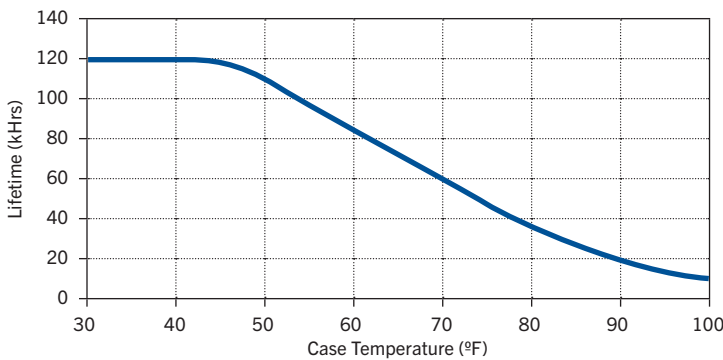


### WIRING SPECIFICATIONS

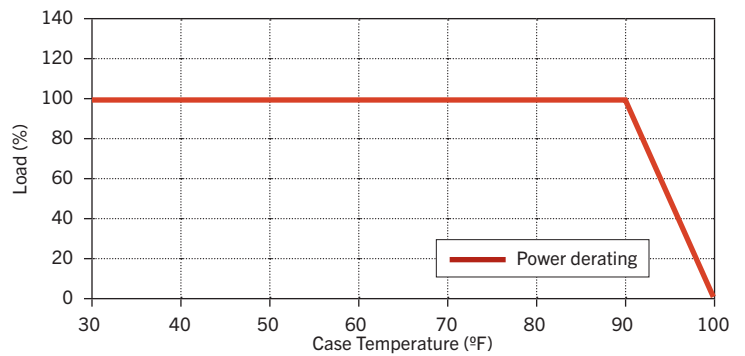
<b>INPUT</b>	12", UL 1316 #18AWG (Black and White)
<b>OUTPUT</b>	12", UL 1316 #18AWG (Red and Blue)
<b>DIMMING</b>	12", UL 1316/1430 #22AWG (Purple and Grey)

### PERFORMANCE SPECIFICATIONS

#### LIFETIME VS CASE TEMPERATURE



#### POWER DERATING VS CASE TEMPERATURE

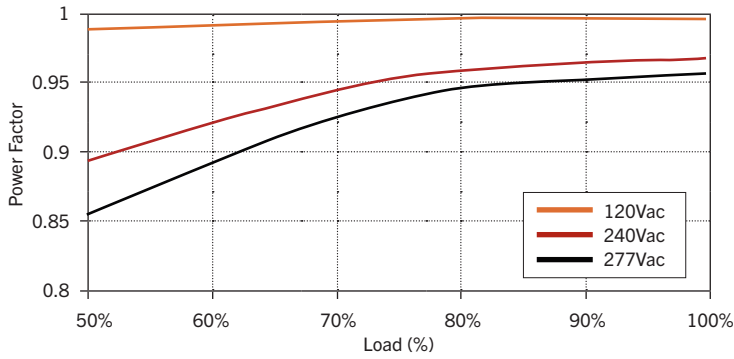




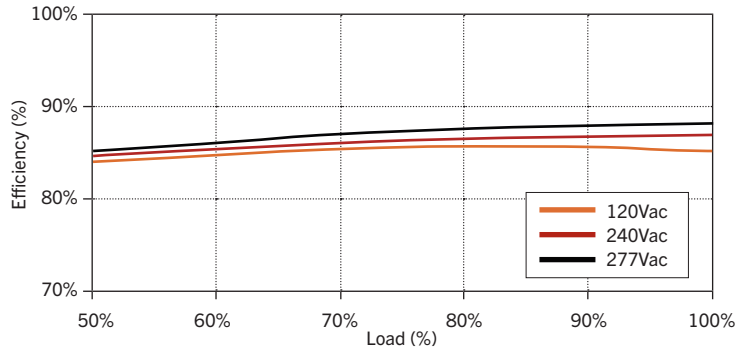
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**POWER FACTOR VS LOAD**



**EFFICIENCY VS LOAD**



**ORDERING INFORMATION**

CATALOG NUMBER	PACK QTY.	EASY CODE	UPC
KTLD-100-UV-PS2300-42-VDIM-LM2	32	XFZ-81	843654134383

**CATALOG NUMBER BREAKDOWN**

# KTLD-100-UV-PS2300-42-VDIM-LM2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

- 1** Keystone Technologies LED Driver
- 2** Max. Output Wattage
- 3** 120-277V Input
- 4** Power Select Series
- 5** Max. Output Current
- 6** Max. Output Voltage
- 7** 0-10V Dimming
- 8** Case Style